

ILD981096340

Geloth,

I. IDENTIFICATION POTENTIAL HAZARDOUS WASTE SITE TLD 04822814 **€PA** PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT II. SITE NAME AND LOCATION G3 City ATES LATITUM 088 55 420 ATTACHED III. RESPONSIBLE PARTIES rKlamo IUNKNOWN) UNKNOWN C. STATE D. COUNTY DE. MUNICIPAL XA. PRIVATE | B. FEDERAL: ☐ F. OTHER: . G. UNKNOWN 1-L CYMER/OPERATOR NOTESCATION ON FILE (Check of C A. RCRA 3001 DATE RECEIVED: I MONTH DAY YEAR B. UNCONTROLLED WASTE SITE (CERCLA 103 4) DATE RECEIVED: / / MONTH DAY YEAR IV. CHARACTERIZATION OF POTENTIAL HAZARD O ON SITE INSPECTION B. EPA CONTRACTOR C. STATE ☐ D. OTHER CONTRACTOR C A. EPA ☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: XN0 CONTRACTOR NAME(S): 012 STE STATUS (Check and 03 YEARS OF OPERATION LINKNOWN □ A. ACTIVE □ 3. INACTIVE 500. UNKNOWN (1) DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED (Toxic); HEAVY METALS (Soluble/Toxic/Rersistant) GRoundwater (population / Environment) 1. PRIORITY ASSES: MENT (IT FRIORITY FOR INSPECTION (Check one. If high or me B. MEDIUM C. LOW D. NONE A. HIGH VI. NFORMATION AVAILABLE FROM CICONTACT 02 OF (Agency/Organization) 03 TELEPHONE NUMBER

05 AGENCY

ΙΕΡΑ

06 ORGANIZATION

HSCS

07 TELEPHONE NUMBER

UIT 782-676

4 FERSON RESPONSIBLE FOR ASSESSMENT

EI'A FORM 2070-12 (7-81)

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

1. IDENTIFICATION
OI STATE OF SITE NUMBER
TLD 148228142

			TAILLE WAGE	E INFORMATION				
II. WASTE ST	TATES. QUANTITIES, AP	ND CHARACT	ERISTICS					
A SOLID B POWDER			res of waste quantities Celin rependent	03 WASTE CHARACT ATOXIC B CORRO C RADIOA	ERISTICS Check de Inval de Constitution (Constitution Constitution Con	BLE I HIGHLY	SIVE	
SLUDGE		CUBIC YARD	SUNKNOWN	OPERSIS	TENT HIGHIT	ABLE L INCOME	PATIBLE	
D OTHER	:Saec dy)	NO OF DRUM	-	.		M NOT A	M NOT APPLICABLE	
III. WASTE T	YPE	 		<u> </u>				
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS			
SLU	SILUDGE							
OLW	()LY WASTE		UNKNOWN	UNKNOWN	Crude	DiL		
SOL	SOLVENTS							
PSD	PESTICIDES							
осс	()THER ORGANIC CI	HEMICALS	UNKNOWN	UNKNOWN	Brine W	aste		
IOC	I VORGANIC CHEMIC	ALS						
ACD	ACIOS							
BAS	HASES							
MES	HEAVY METALS		UNKNOWN	UNKNOWN	Brine W	laste		
IV. HAZARDO	OUS SUBSTANCES ISHIA	apendia fer most freq	wently cited CAS Numbers)				·	
OI CATEGORY	02 SUBSTANCE N	AME	03 CAS NUMBER	04 STORAGE DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION	
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V. FEEDSTO	CKS Lies Appendix for C45 Numb	4 '31		<u> </u>			***************************************	
CATEGORY	01 FEEDSTOC	K NAME	02 CAS NUMBER	CATEGORY	01 FEEDST	OCK NAME	02 CAS NUMBER	
FDS				FDS				
FOS				FDS				
FDS				FDS				
FDS				FDS				
	OF INFORMATION CA							

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CORDITIONS AND INCIDENTS

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
ILD 048228142

PART 3 - DESCRIPTION OF H	AZARDOUS CONDITIONS AND INCIDENT	8
II. HAZARDOUS CONDITIONS AND INCIDENTS		
01 X A GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED.	02 GBSERVED (DATE] 04 NARRATIVE DESCRIPTION	XPOTENTIAL ALLEGED
Highly Soluble brine wast	e placed for disposal	in unlined
Highly Soluble brine wast	impacted private wells	as Similar facilities
01 B SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED	02 TOBSERVED (DATE) 04 NARRATIVE DESCRIPTION	L. POTENTIAL ALLEGED
01 C. C. CONTINMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED.	02 C OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	POTENTIAL E: ALLEGED
01 _ D FIRE/E:(PLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED	02 - OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	E POTENTIAL II ALLEGED
01 © E DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED.	02 (3 OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	POTENTIAL ALLEGED
O1 XF CONTAMINATION OF SOIL UNKNOWN O3 AREA POTENTIALLY AFFECTED UNKNOWN LOSS of production (Ag lander been noted at Similar site	of observed (DATE) of narrative description d) and damage to sees (see I following) (see Date of the control of the co	xpotential allegeo sil structure has 6 Other following)
SEE A" ABOVE	02 L) OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	X POTENTIAL ALLEGED
31 H. WORKER EXPOSURE/INJURY 03 WORKERS PUTENTIALLY AFFECTED:	02 EJ OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	E POTENTIAL .! ALLEGED
01 _ 1 POPULATION EXPOSURE/INJURY 03 POPULATION FOTENTIALLY AFFECTED:	02 Li OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	() POTENTIAL () ALLEGED

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

1. IDENTIFICATION
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ILD 048 228 142

PART 3 - DESCRIPTK	ON OF HAZARDOUS CONDITIONS AND INCIDENTS	(1L) 070 226 FT
IL HAZARDOUS CONDITIONS AND INCIDENTS IC		
of humanity sescription The near Increased Soil Salinity	Sterilization of Soils (>5 acres to the state of See Fabore) (See 05 other for See Fabore)	rpotential alleged les). Altributed to milar sites Mowing)
01 [] K. DAMMIE TO FALINA 04 NARRATIVE DESCRIPTION (INClude name)(1) of specces)	02 OBSERVED (DATE:)	POTENTIAL ALLEGED
01 . CONT/MINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	POTENTIAL ALLEGED
01 M. UNST ABLE CONTARMENT OF WASTES (Sees, west standing hands facting drums) 03 POPULATION POTENTIALLY AFFECTED.	02 OBSERVED (DATE)	POTENTIAL ALLEGED
01 : N DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 (i OBSERVED (DATE:)	POTENTIAL ALLEGED
01 C O CONTIMINATION OF SEWERS, STORM DRAIN 04 NARRATIVE DESCRIPTION	AS, WWTPs 02 OBSERVED (DATE:)	POTENTIAL ALLEGED
	inspected by regulatory as	gencies, Facility d to detect.
Denuding of Soils by Chosion in Several	brines is deemed leading of Illinois Counties	cause of soil
M. TOTAL POPULATION POTENTIALLY AFFECTE	0: 10,000	
IV. COMMENTS		
V. SOURCES OF INFORMATION (Can assesse references.	y g state Res, sample Andrysis, reports)	
S. I.A. STUDY		

FXECUTIVE SUMMARY

This site has been placed in the ERRIS data base as a result of its identifaction during the federally funded Surface Impoundment Assessment (SIA) study of 1980. During ERRIS placement the operator name and business address were utilized from the SIA which results in deviations from ERRIS for actual site location, Part I section II items 02 through 08 cf form 2070-12. This use of operator name and address has also led to one (1) ERRIS listing representing, in actuality, from one (1) to one hundred eight (108) actual brine pits at an equal number of separate locations.

Some considerable effort has been expended to select the site with highest, Phase II SIA, pollution potential when available where multiple sites are represented by a single ERRIS listing. One must keep in mind that the Phase II SIA represents no more than 7 percent of the brine pits identified in Illinois. Phase I identified more than 3200 pits where Phase II evaluated a random selection of less than 220. One must also maintain a realization that Phase II pollution potential was determined by tench top study with little or no actual site visitation or monitoring. This site did not receive Phase II evaluation although the operator was placed on ERRIS. All identified sites associated with this operator will therefore receive Preliminary Assessment.

Minimal to no file information exists on this site beyond that contained in Phases I of the SIA. There is no direct evidence of hazardous waste disposal at this site beyond the potentially hazardous constituents of Illinois Basin brines, but with only annual inspections by Illinois Mines and Minerals staff relevent to oil production practices and recent backfilling of most brine pits in Illinois, disposal of off site material of unknown nature is possible. A literature review and laboratory analysis of samples from two other sites indicate concern for contamination of groundwater/surface water by Sodium, Sulfate, Chloride etc. (Non-Hazardous Constituents), concern for heavy metals (i.e., Chrome, Vanadium, Barium) and long chain hydrocarbons.

A question arises as to the addressability of the heavy metals by CERCLA whn one considers 40 CFR section 300.6 "Definitions - Federally Permitted Release (i)" and Section 101(10) of CERCLA. The statement "and which are reinjected" seems to allow CERCLA action, but interpretation and clarifications by <u>USEPA legal staff seems required</u>. The long chain hydrocarbons would appear to be included in the exclusion given to crude oil and factions thereof under 40 CFR section 300.6 "Definitions-Hazardous Substance" and 101(14) of CERCLA.

A medium priority has been assigned due to the potential impact of this site on groundwater in a rural area where private wells are generally the sole source for potable water. Similar sites have impacted private wells to a point requiring users to seek alternative sources for drinking water. A site inspection should be scheduled to verify/update owner-operator information and gain more thorough site specific information.

TGA: RML:cm:4/21